Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL ENGINE FAMILY | | DISPLACEMENT (liters) | FUEL TYPE | USEFUL LIFE (hours) | | |
|---|---------------------------|--------------------------|-------------------------------|------------------------|--|--|
| 2002 | 2CEXL0505ACE | 8.3 | Diesel | 8000 | | |
| SPECIAL FEATURES & EMISSION CONTROL SYSTEMS | | | TYPICAL EQUIPMENT APPLICATION | | | |
| Direct Dies | el Injection, Turbocharge | er, Charge Air Cooler | Generator Set | | | |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| RATED POWER | EMISSION STANDARD | | EXHAUST (g/kw-hr) | | | | OPACITY (%) | | | |
|--------------------------|----------------------|------|-------------------|-----|----------|------|-------------|-------|-----|------|
| CLASS | CATEGORY | | нс | NOx | NMHC+NOx | со | PM | ACCEL | LUG | PEAK |
| 130 <u><</u> KW < 225 | Tier 1 | STD | 1.3 | 9.2 | N/A | 11.4 | 0.54 | N/A | N/A | N/A |
| <u> </u> | | CERT | 0.4 | 8.4 | | 0.5 | 0.18 | | | |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

b th_ day of December 2001.

R. B. Summerfield, Chief Mobile Source Operations Division

¥ ... 8.Fuel Rate: 9.Emission Control (tbs/hr)@peak torque Device Per SAE J1930 NA DOI, TC, CAC TC, CAC 2410-200-21-1) ŝ n/a n/a mm/stroke@peak torque 7, Fuel Rate: n/a 6.Torque @ RPM (SEA Gross) n'a. n/a Engine Model S mary Form 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 98.0 86.6 1999 - 1998 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -4.Fuel Rate: mrv/stroke @ peak HP (for diesel only) 162 171 277@1800 3.BHP@RPM (SAE Gross) 241 @ 1500 Nonroad Over 50 Hp **New Submission** 2CEXL0505ACE 2.Engine Model 6CTA8.3-G2 Cummins Inc. 6CTA8.3-G2 Ar. JHHENT Mfr Family Name: F413 EPA Engine Famly. Engine category: 1.Engine Code 2218;FR90242 2218;FR90243 Process Code: Manufacturer: